IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1634

In re Application of: Raymond F. Cracauer

Serial No.:

09/782,702

Filed: Entitled: 02/13/01

Nucleic Acid Synthesizers

Group No.: 1634

Examiner:

Janell Turner

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Assistant Commissioner for Patents Washington, D.C. 20231

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)

I hereby centify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231;

By:

Sir or Madam:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

A check for \$180.00 is also enclosed pursuant to 37 C.F.R. § 1.17(p) for filing this Information Disclosure Statement after three months as set forth in 37 C.F.R. § 1.97(c).

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated: August 5, 2002

Registration No. 42,363

MEDLEN & CARROLL, LLP 101 Howard Street, Suite 350 San Francisco, California 94105

608/218-6900

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Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The following printed publications are referred to in the body of the specification:

- U.S. Patent No. 5,472,672 to Bennan on 12/5/95
- U.S. Patent No. 5,368,823 to McGraw et al. on 11/29/94
- U.S. Patent No. 5,935,527 to Andrus et al. on 8/10/99
- U.S. Patent No. 5,865,224 to Ally et al. on2/2/99
- WO99/65602

The following references were identified in a search provided by World Patent Services, Inc., Arlington VA. Primary Examiner Jill Warden was consulted by Rick Jordan of WPS for Class verfication and suggested Class 422, subclasses 63, 64, 65, 67, 81, 100, 102,

104, 129, 130, 131, 134, 188 and 189. Computer searching using the EAST system was also conducted to include the EPO and JPO collection.

- U.S. Patent No. 6,280,950;
- U.S. Patent No. 6,270,730;
- U.S. Patent No. 6,264,891;
- U.S. Patent No. 6,126,904;
- U.S. Patent No. 6,171,555;
- U.S. Patent No. 6,150,102;
- U.S. Patent No. 6,096,276;
- U.S. Patent No. 6,045,755;
- U.S. Patent No. 5,792,430;
- U.S. Patent No. 5,770,157;
- U.S. Patent No. 5,580,523;
- U.S. Patent No. 5,443,791;
- U.S. Patent Publication No. 2001/0022950;
- U.S. Patent Publication No. 2001/0007644;
- U.S. Patent Publication No. 2001/0001035; and
- U.S. Patent Publication No. 2001/0000723.

Applicants have become aware of the following printed publications which may be material to the examination of this application:

- U.S. Patent No. 3,917,455;
- U.S. Patent No. 4,353,989;
- U.S. Patent No. 4,483,964;
- U.S. Patent No. 4,517,338;
- U.S. Patent No. 4,598,045;
- U.S. Patent No. 4,598,049;
- U.S. Patent No. 4,744,037;
- U.S. Patent No. 4,837,159;
- U.S. Patent No. 5,053,454;
- U.S. Patent No. 5,112,575;

Attorney Docket No. FORS-06111

- U.S. Patent No. 5,262,530;
- U.S. Patent No. 5,298,259;
- U.S. Patent No. 5,437,979;
- U.S. Patent No. 5,462,748;
- U.S. Patent No. 5,466,608,
- U.S. Patent No. 5,503,805;
- U.S. Patent No. 5,762,881;
- U.S. Patent No. 5,789,162;
- U.S. Patent No. 5,874,554;
- U.S. Patent No. 5,885,837;
- U.S. Patent No. 5,981,733;
- U.S. Patent No. 6,057,424;
- U.S. Patent No. 6,165,717;
- U.S. Patent No. 6,175,006;
- U.S. Patent No. 6,177,554;
- U.S. Patent No. 6,225,061;
- U.S. Patent No. 6,329,210;
- U.S. Patent No. 4,401,796;
- U.S. Patent No. 4,689,405;
- U.S. Patent No. 4,734,363;
- U.S. Patent No. 4,950,745;
- U.S. Patent No. 5,047,524;
- U.S. Patent No. 5,112,962;
- U.S. Patent No. 5,132,418;
- U.S. Patent No. 5,149,798;
- U.S. Patent No. 5,264,562;
- U.S. Patent No. 5,264,566;
- U.S. Patent No. 5,324,831;
- U.S. Patent No. 5,514,789;
- U.S. Patent No. 5,518,651;
- U.S. Patent No. 5,548,076;

Attorney Docket No. FORS-06111

- U.S. Patent No. 5,616,700;
- U.S. Patent No. 5,620,852;
- U.S. Patent No. 5,639,873;
- U.S. Patent No. 5,646,267;
- U.S. Patent No. 5,652,358;
- U.S. Patent No. 5,668,266;
- U.S. Patent No. 5,668,268;
- U.S. Patent No. 5,700,919;
- U.S. Patent No. 5,703,218;
- U.S. Patent No. 5,703,223;
- U.S. Patent No. 5,723,599;
- U.S. Patent No. 5,726,300;
- U.S. Patent No. 5,736,626;
- U.S. Patent No. 5,789,162;
- U.S. Patent No. 5,821,058;
- U.S. Patent No. 5,840,841;
- U.S. Patent No. 6,313,284;
- U.S. Patent No. 5,541,314
- U.S. Patent No. 5,053,454
- WO91/13084
- WO98/10857
- WO98/36829
- WO98/39099
- WO98/57181
- User's Manual ABI 3900 High Throughput DNA Synthesizer, Applied Biosystems (2001)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: August 5, 2002

Mary Ann D. Brow Registration No. 42,363

MEDLEN & CARROLL, LLP 101 Howard Street, Suite 305 San Francisco, California 94105 415/904-6500

Sheet 1 of 3

ORM PTO-1449 U.S. Department of Comme Modified) Patent and Trademark Offic				ent of Commerce ademark Office	Attorney Docket No	o.: FORS-06111	Scrial No.: 09	7782,702	
INFO	RMATIO	DISCLOSURE ST	ATEMENT BY APPL	LICANT	Applicant: Raymon	nd F. Cracauer	· · ·		
(Use Several Sheets If Necessary) 37 CFR § 1.98(b))					Filing Date: 02/13	/01	Group Art Unit: 1634		
CPR 9 1.5	8(0)/		L	J.S. PATENT DOC	CUMENTS				
xaminer Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee		Class	Subclass	Filing Date	
	1	5,472,672	12/5/95		Bennan		131	10/22/93	
	2	5,368,823	11/29/94	McC	Graw et al.	422	1340	2/11/93	
	3	5,935,527	8/10/99	An	idrus <i>et al.</i>	422	131	4/29/93	
	4	5,865,224	2/2/99		ally et al.	141	130	12/20/96	
	5	6,280,950	8/28/01	Lip	shutz <i>et al</i> .	435	6	10/28/99	
	6	6,270,730	8/7/01	Me	Luen et al.	422	131	6/16/98	
<u> </u>	7	6,264,891	7/24/01	Неу	meker et al.	422	64	5/18/99	
	8	6,126,904	10/3/00	Zt	iellig et al.	422	130	9/5/97	
	9	6,171,555	1/9/01	Ç.	argill et al.	422	104	3/6/98	
	10	6,150,102	11/21/00	Mi	lls, Jr. er al.	435	6	5/15/98	
	11	6,096,276	8/1/00		Laursen	422	103	8/14/91	
	[2	6,045,755	4/4/00	t	,chi et al.	422	65	3/10/97	
	13	5,792,430	8/11/98	Hamper Cargill et al.		422	131	8/11/98	
	14	5,770,157	6/23/98			422	99	9/18/96	
*****	15	5,580,523	12/3/96		Bard	422	50	4/1/94	
	16	5,443,791	8/22/95	Ca	ithcart <i>et al</i> .	422	65	8/7/92	
	17	6,329,210	12/11/01	Schleifer Andrus et al.		436	518	10/29/99	
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· · ·	19	6,057,424	5/2/00		Vail, III	530	333	3/24/97	
	20	5,981,733	11/9/99	Gamble et al.		536	25.3	9/16/96	
	21	5,885,837	3/23/99	٧٠	inkler et al.	435	91.1	10/23/96	
	22	5,840,841	11/24/98	Zuc	rmann et al.	530	338	5/8/97	
	23	5,541,314	7/30/96	М	cGraw et al.	536	25.31	8/2/94	
	24	5,466,608	11/14/95	L	apluye <i>et al</i> .	436	86	9/7/93	
	2.5	5,462,748	10/31/95		Lloyd et al-	424	484	1/14/94	
	26	5,298,259	3/29/94	1	Lloyd et al.	424	486	11/5/91	
	27	5,262,530	11/16/93		andrus et al.	536	25.31	7/27/90	
	28	5,153,319	10/6/92	Ç	aruthers et al.	536	27	3/31/86	
	29	5,143,418	7/21/92	C	aruthers et al.	536	27	6/18/94	
	30	5,112,575	5/12/91	w	ritehouse et al.	422	116	2/14/91	
	31	5,047,524	9/10/91		Andrus et al.	536	27	12/21/88	
	32	4,744,037	5/10/88		Niina et al.	364	497	7/15/85	
	33	4,598,049	7/1/86		čelinka <i>et al</i> .	435	287	8/31/\$3	
ixaminer:					Date Considered				

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FORM PTO-1449 U.S. Department of Common Patent and Trademark Officers (Modified)				rademark Office	Attorney Docket No		Serial No.: 09/782,702		
INFO	RMATIO	DISCLOSURE ST	TEMENT BY APP	LICANT	Applicant: Raymon	d F. Cracauer		<u> </u>	
(Usc Several Sheets If Necessary) 37 CFR § 1.98(b))				Filing Date: 02/13/01			Group Art Unit: 1634		
/ CPR 9 1.9	<u> </u>			U.S. PATENT DOC	UMENTS				
Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee		Class	Subclass	Filing Date	
1(1111111111111111111111111111111111111	34	4,517,338	5/14/85	Uı	dea et al-	525	54.11	7/13/84	
	35	4,483,964	11/20/84	Ui	dea et al.	525	54.11	6/20/83	
	36	4,458,066	7/3/84	Can	uthers er al.	536	27	3/24/81	
	37	4,353,989	10/12/82	Bender et al.		435	287	1/19/81	
	38	6,177,554	1/23/01	Woo et al.		536	23.1	6/5/95	
······································	39	5,736,626	4/7/98	Muliah et al.		536	25.3	1/29/96	
	40	5,723,599	3/3/98	Klem etal.		536	25.3	3/22/95	
	41	5,703,218	12/30/97	u	rdes et al.	536	23.1	4/13/95	
	42	5,668,268	9/16/97	Tang et al.		536	25.3	11/27/95	
	43	5,652,358	7/29/97	Pfleiderer et al-		536	25.3	11/3/94	
	44	5,639,873	6/17/97	Barascui et al.		536	25.3	8/4/94	
	45	5,518,651	5/21/96	Reddy er al.		252	193	6/8/94	
	46	5,264,562	11/23/93	Matteucci		536	23.1	4/24/91	
	47	4,950,745	8/21/90	I:	shido <i>et al.</i>	536	58	6/27/88	
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	49	6,225,061 B1	5/1/01	Becker et al.		435	6	3/10/99	
	50	6,165,717	12/26/00	Г	lower et al.	435	6	5/13/98	
,	51	5,874,554	2/23/99	G	amble et al.	536	22.1	12/13/96	
	52	5,789,162	8/4/98		Dower es al-	435	6	6/7/95	
	53	5,726,300	3/10/98	· · · · · · · · · · · · · · · · · · ·	Klem <i>et al.</i>	536	25.34	6/15/94	
	54	5,703,223	12/30/97		ckstrom et aL	536	25.33	9/2/94	
	55	5,700,919	12/23/97	· · · · · · · · · · · · · · · · · · ·	eliger et al.	536	22.1	1/10/95	
,	56	5,668,266	9/16/97		Ruth		25.3	5/12/95	
	57	5,646,267	7/8/97		Stee et al.	536 536	25.33	6/5/95	
	58	5,620,852	4/15/97		Lin et al.	435	6	10/31/94	
	59	5,616,700	4/1/97		Reddy et aL	536	25.3	11/18/93	
	60	5,548,076	8/20/96		roehler et al.	536	25.34	8/13/93	
	61	5,514,789	5/7/96		Kempe	536	25.4	4/21/94	
	62	5,324,831	6/28/94	M	larquez <i>et al</i> .	536	25.3	4/6/88	
	63	5,264,566	11/23/93		rochler et al.	536	25.34	4/26/90	
	64	5,149,798;	9/22/92		grawal et al.	536	27	4/6/89	
	65	5,112,962	5/12/91		etsinger et al.	536	27	11/9/90	
Examiner:	<u> </u>				Date Considered:				

Sheet 3 of 3

PORM PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office					Attorney Docket No.: FORS-06111 Serial No.: 09/782,702					
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			<u> </u>	S. PATENT DOC	UMENTS					
Examiner Initials	Çite No.	Serial / Patent Number	Issue Date	Applicant / Patentco		Class	Subclass	Filing Date		
	66	4,734,363	3/29/88	Datis	igupia et al.	435	91	11/27/	984	
	67	4,689,405	8/25/98	Fr	ank et al.	536_	27	1/4/84		
	68	4,401,796	8/30/83	Itakura		535	340	4/30/81		
	69	3,917,455	11/4/75	Bak et al.		23	253	5/10/74		
	70	4,837,159	6/6/89	Yamada		436	45	9/17/85		
	71	5,503,805	4/2/96	Sugarman et al.		422	131	11/2/93		
	72	5,437,979	8/1/95	Rampal et al.		435	6	8/24/92		
	73	5,762,881	6/9/98	Harness et al.		422	132	10/29/96		
	74	4,598,045	7/1/86	Masover el al-		435	34	2/19/85		
	75	5,053,454	10/1/91	Judd		525	54.11	2/15/89		
			U.S. PAT	TENT APPLICATI	ON PUBLICATION			,		
Examiner Initials	Cite No.	Publication Number	Publication Date	Appli	cant / Patentee	Class	Subclass	Filing Date		
	76	2001/0022950	9/20/01	Hall et al. 422 1		131	5/18/01			
	77	2001/0007644	7/12/01	М	cLuen <i>et al</i> .	422	131	12/19/00		
	78	2001/0001035	5/10/01		cLuen et al.	aL 422 100		12/1	9/00	
	79	2001/0000723	5/3/01	McLuen et al.		422	100 12/19/0		9/00	
		FC	REIGN PATENTS O	R PUBLISHED FO	DREIGN PATENT APP	LICATIONS		,		
		Document Number	Publication Date	Countr	y / Patent Office	Class	Subclass	Trans Yes	lation N	
	80	WO99/65602	23 Dec. 99							
	81	WO 00/56445	28 Scpt. 00							
	82	WO 91/13084	5 Sept. 91						<u> </u>	
	83	WO 98/36829	27 Aug. 98						<u> </u>	
	84	WO 98/39099	11 Sept 98					<u> </u>	1_	
	85	WO 98/57181	17 Dec. 98						<u> </u>	
	86	WO 98/10857	19 Mar. 98		1			<u></u>		
		OTHER	DOCUMENTS (Inclu	ding Author, Title,	Date, Relevant Pages, I	Place of Publication	1)			
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